Name……..……..
Stream……Sign……...……..
545/1
CHEMISTRY
Paper 1
Term II 2026
$1\frac{3}{4}$ hours

EXODUS COLLEGE SCHOOL – WAKISO

END OF TERM II 2026

S.2 CHEMISTRY

1hour 45minutes

INSTRUCTIONS TO LEARNERS

*This paper consists of two sections **A** and **B***

*Section **A** has **two** compulsory items to be answered in the spaces provided.*

*Answer only one item in section **B** in the answer booklets provided.*

Answer three items in total.

Be neat and precise.

SECTION A

Item 1

The village leaders of two friendly villages planning to construct a new bridge that is environmentally friendly to connect them for business and ease of transport. They want the bridge to be durable and have minimal impact on the surrounding ecosystem. However, they are unsure about the types of materials to use for the construction.

Task:

Use your chemistry knowledge to:

a) Explain

(i) Categories of the materials.

(ii) The suitability of the materials.

(iii) the environmental impacts of using such materials.

_____

_____

_____

_____

_____

_____

_____

Item 2

OK Company Limited has extensively invested in the utensil production using the concepts of elements in chemistry. During a study trip to the production facility by some senior one students of your school, the company technician informed them that the utensils are made out of an element identified as **X** in their company, an idea which confused these learners so much. He further added that the element used is in *Period 3* and *Group III* of the periodic table as shown below.

Figure 2 shows a periodic table of the first 20 elements.

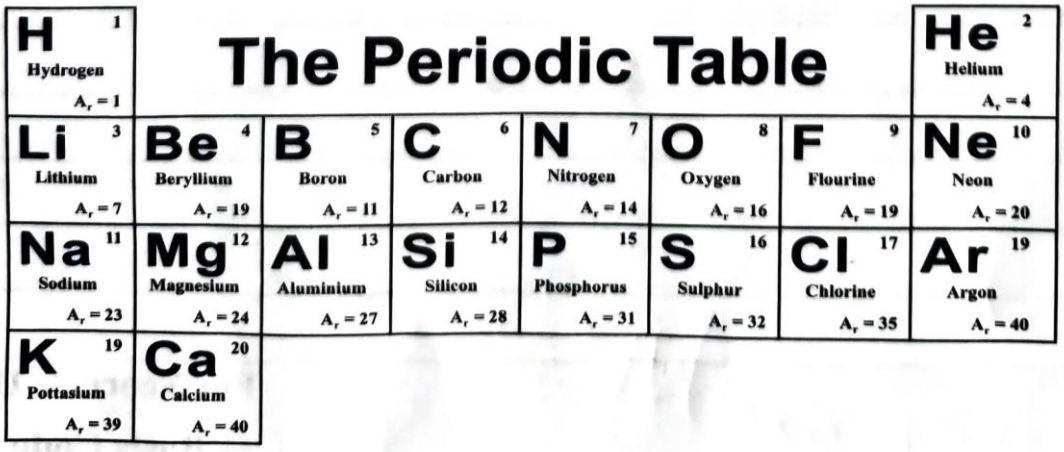


Fig. 2. Periodic table for the first 20 elements

Task

As a student of chemistry, help the learners;

a) Identify substance x and explain its category.

b) Explain the suitability of the substance for its use in the company.

c) Explain the impact of using the substances to the environment and how they can be overcome.

SECTION B

Item 3

A technical team from ***National Environmental Authority*** (NEMA) is making research about the air quality in Namanve industrial Park in Mukono District. The area has many industries that release waste gases to the atmosphere. The authority has engaged stake holders including your school to make a detailed research report aiming at addressing the problem while maintaining the economy.



Task

As the chairperson of the Environment club at your school, prepare a detailed report for them to use as a research tool.

END